What is claimed is:

1		1.	A method for validating a restored message, comprising:		
2		gener	ating an entry in a signature log for a message, wherein said entry		
3	comprises cryptographic information associated with said message;				
4		when	said message is lost, generating said restored message responsive to		
5	a request; and	1			
6		valida	ting said restored message using said signature log.		
1		2.	The method of claim1 wherein said signature log comprises a		
2	hysteresis sig	nature.			
1		3.	The method of claim 1 wherein said cryptographic information		
2	comprises a d	ligital si	gnature.		
1		4.	The method of claim 3 wherein said digital signature is generated		
2	using information from a previous signature log entry.				
1		5.	A system for recovering and validating user information,		
2	comprising:				
3		a user	system comprising a signature log, said signature log comprising		
4	cryptographic	inform	ation associated with said user information;		
5		a reco	very system coupled with said user system via a communications		
6	network for restoring user information; and				
7		a valid	lity system coupled with said user system via said communications		
8	network for va	alidatinį	g restored user information using said signature log.		
1		6.	The system of claim 5 wherein said user information comprises a		
2	log entry of said signature log.				
1		7.	The system of claim 5 wherein said user information comprises a		
2	user message.	•			
1		8.	The system of claim 5 wherein said cryptographic information		
2	comprises a ha	ash valu	e.		

1	9.	The system of claim 5 wherein said signature log comprises a first	
2	log entry of said si	gnature log determined in part by a second log entry of said signature	
3	log.		
1	10	A greatest for determining if a constant is 111 and 1	
	10.	A system for determining if a user message is valid, said system	
2	comprising:		
3		ser computer system having a log, said log comprising a log entry	
4	related to a message sent by said user, wherein said log entry has a digital signature		
5	comprising inform	ation related to a previous log entry of said log; and	
6	a va	lidation unit coupled to said user computer system for validating said	
7	user message using said log.		
1	11.	The system of claim 10 further comprising a collection unit	
2	responsive to said	validation unit for retrieving said user message, when said user	
3	message is lost.		
1	12.	The system of claim 10 further comprising a collection unit	
2	responsive to said	validation unit for retrieving a copy of said message from a receiver of	
3		n said user message is lost.	
1	13.	The system of claim 10 further comprising a publication unit for	
2	publishing a selecte	ed log entry of said log.	
1	14.	The system of claim 13 wherein said selected log entry is used in	
2	validating said user	- •	
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1	15.	The system of claim 13 wherein publication unit is selected from a	
2	group consisting of	a newspaper publisher or a Web site.	
1	16.	The system of claim 10 further comprising a notary unit for	
2	registering a selecte	ed log entry of said log.	
1	17.	The system of claim 10 further comprising a log chain crossing	
2	unit coupled to said user computer system and a second user computer system for		
3	recording transactions between said user computer system and said second user computer		
4	system		

1	18. The system of claim 10 further comprising a log chain crossing		
2	unit coupled to said user computer system and a second user computer system for		
3 .	facilitating transactions between said user computer system and said second user		
4	computer system.		
1	19. A computer readable data transmission medium containing a data		
2	structure for validating message information comprising:		
3	a first portion having a hash of a user message;		
4	a second portion having a hash of a signature log entry; and		
5	a digital signature based on said first portion and said second portion.		
1	20. The computer readable data transmission medium of claim 19		
2	wherein said signature log entry is related to another user message prior to said user		
3	message.		
1	21. The computer readable data transmission medium of claim 19		
2	further comprising a third portion having a timestamp.		
1	22. A method, using a computer, for generating a signature log		
2	comprising a plurality of log entries, said method comprising:		
3	generating a first log entry of said plurality of log entries, said first log		
4	entry comprising a first cryptographic value associated with a first user message; and		
5	generating a second log entry of said plurality of log entries, said second		
6	log entry comprising a second cryptographic value associated with said first log entry, a		
7	third cryptographic value associated with a second user message, and a digital signature.		
1	23. The method of claim 22 wherein said digital signature is formed		
2	using information including said second cryptographic value and said third cryptographic		
3	value.		
1	24. The method of claim 22 wherein said second cryptographic value is		
2	a hash of said first log entry.		
1	25. The method of claim 22 wherein said second log entry further		
2	comprises a timestamp		

1	26. A data structure stored in a computer readable medium for				
2	validating a selected user message of a plurality of user messages, comprising:				
3	a first hash of a first log entry, wherein said first log entry comprises a				
4	second hash of a first user message of said plurality of user messages;				
5	a third hash of said selected user message of said plurality of user				
6	messages; and				
7	a digital signature of said first hash combined with said third hash.				
1	27. In a computer system, a method for validating a selected log entry				
2	by using a signature log having a plurality of recorded log entries, said method				
3	comprising:				
4	computing a cryptographic value for said selected log entry; and				
5	determining if said cryptographic value is part of a first recorded log entry				
6	of said plurality of recorded log entries.				
1	28. The method of claim 27 wherein said selected log entry				
2	corresponds to a second recorded log entry of said plurality of recorded log entries				
3	sequentially prior to said first recorded log entry.				
1	29. A system for preventing repudiation of a transaction by one of a				
2	plurality of user computer systems, said system comprising:				
3	a first user of said plurality of user computer systems;				
4	a second user of said plurality of user computer systems performing said				
5	transaction with said first user; and				
6	a log chain crossing computer responsive to a request by either said first or				
7	said second user to record said transaction, said record comprising a hysteresis				
8	signature of said transaction.				
1	30. A method using a computer system for registering a log entry of a				
2	user by an officially recognized entity, comprising:				
3	maintaining a signature log chain by said officially recognized entity,				
4	wherein a first log entry of said signature log chain is related to a previous second log				
5	entry of said signature log chain;				
6	receiving from said user a user log entry;				

7 ·	generating a cryptographic value associated with said user log entry; and			
8	generating a third log entry of said signature log chain, wherein said third			
9	log entry comprises said cryptographic value.			
1	31. The method of claim 30 wherein a selected log entry of said			
2	signature log chain is published.			
1	32. The method of claim 30 wherein said officially recognized entity is			
2	a notary.			
1	33. A method for validating a user data item by a computer system			
2	using a user's signature log, comprising:			
3	receiving said user's signature log;			
4	validating a cryptographic value associated with said user data item is in a			
5	first log entry in said user's signature log;			
6	determining a second log entry in said user's signature log that is			
7	checkpointed;			
8	verifying said first log entry by back chaining from said second log entry			
9	to said first log entry; and			
10	returning a result to said user.			
1	34. A method, using a computer system, for recovering a data item			
2	between two points in time, comprising:			
3	receiving a request from a user to recover data between two points in time,			
4	wherein said data item is between said two points in time;			
5	receiving from a data recovery unit said data item and associated signature			
6	log entry;			
7	validating said data item using said associated signature log entry; and			
8	if said data item is validated, sending said data item to said user.			
1	35. A system for validating a user message, comprising:			
2	an input module for receiving a signature log from a user, said signature			
3	log comprising a plurality of related log entries;			
4	a cryptographic module for generating a cryptographic value from said			
5	user message: and			

6	a verifying module for validating said cryptographic value is in said		
7	signature log.		
1	36. The system of claim 35 further comprising a log verifying module		
2	for determining if a first log entry of said plurality of related log entries is compromised,		
3	said determining comprising:		
4	selecting a second log entry of said plurality of related log entries		
5	bsequent to said first log entry;		
6	hashing said first log entry to give a hash value; and		
7	validating said hash value is part of said second log entry.		
1	37. A computer program product for validating a restored message,		
2	comprising:		
3	code for generating an entry in a signature log for a message, wherein said		
4	entry comprises cryptographic information associated with said message;		
5	when said message is lost, code for generating said restored message		
6	responsive to a request;		
7	code for validating said restored message using said signature log; and		
8	a computer usable medium for embodying said codes.		
1	38. The computer program product of claim 37, wherein said compute		
2	usable medium is a storage medium.		
1	39. The computer program product of claim 37, wherein said compute		
2	usable medium is a carrier wave.		
1	40. A computer data signal embodied in a carrier wave for validating a		
2	restored message, comprising:		
3	program code for generating an entry in a signature log for a message,		
4	wherein said entry comprises cryptographic information associated with said message;		
5	when said message is lost, program code for generating said restored		
6	message responsive to a request; and		
7	program code for validating said restored message using said signature		
8	log.		